

Attorney Docket Number	23-69853-01
Application Number	10/727,062
Filing Date	December 2, 2003
First Named Inventor	John G. DeSteele
Art Unit	1753
Examiner Name	Anthony D. Fick

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

**U.S. PATENT DOCUMENTS**

Copies of U.S. patent documents do not need to be provided, unless requested by the Patent and Trademark Office. For patents, provide the patent number and the issue date. For published U.S. applications, provide the publication number and the publication date. For unpublished pending patent applications, provide the application number and the filing date.

Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
/JB/		3,945,855	3/1976	Skrabek et al.
		5,228,923	7/1993	Hed
		5,505,835	4/1996	Sakaue et al.
		6,162,985	12/2000	Parise
		6,215,580	4/2001	Kouta
/JB/		2003/0140957	7/2003	Akiba

**FOREIGN PATENT DOCUMENTS**

Examiner's Initials*	Cite No. (optional)	Country	Number	Publication Date	Name of Applicant or Patentee

**OTHER DOCUMENTS**

Examiner's Initials*	Cite No. (optional)	
/JB/		Abrikosov, N Kh, et al., "Phase transitions and electrophysical properties of the solid solutions based on GeTe at the cross-section of GeTe-AgSbTe <sub>2</sub> ," <i>Izvestiya Akademii Nauk SSSR, Neorganicheskie Materialy</i> , Abstract Only, Vol. 20, No. 1, pp. 55-59 (1984).
/JB/		Androulakis et al., "Nanostructuring and its Influence on the Thermoelectric Properties of the AgSbTe <sub>2</sub> -SnTe Quaternary System," <i>Materials Research Society Symposium Proceedings</i> , Vol. 886, Abstract Only, 1 page (2006).
/JB/		Decheva, S.K., "Studies on the Thermoelectric Characteristics of Cold-Pressed Materials of the Type of (GeTe) <sub>x</sub> -(AgSbTe <sub>2</sub> ) (1-x)," <i>Bulgarian Journal of Physics</i> , Abstract Only, Vol. 6, No. 2, pp. 194-200 (1979).

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DATE CONSIDERED: 06/06/2008

\* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Examiner's Initials*	Cite No. (optional)	OTHER DOCUMENTS
/JB/		DeStee, J. G. et al., "Technology Development: Wireless Sensors and Controls BT0201," Excerpt from Statement of Work from PNNL to U.S. Department of Energy, Building Technologies Program, 31 pages (September 2004).
		DeStee, J. G., "Thermoelectric Ambient Energy Harvester," a White Paper for the Defense Logistics Agency, pp. 1-4 (undated).
		Martin, P. M. et al., "Si/SiGe Superlattices For Thermoelectric Applications" <i>Proceedings of the 46th Annual Technical Conference of the Society of Vacuum Coaters</i> , pp. 126-129 (2003).
		Martin, P. M. et al., "Scale Up of Si/Si <sub>0.8</sub> Ge <sub>0.2</sub> and B <sub>4</sub> C/B <sub>9</sub> C Superlattices for Harvesting of Waste Heat," <i>Proceedings of DEER</i> , 6 pages (2003).
		Martin, P. M. et al., "Recent Advances in Scale Up of Si/SiGe Superlattices for Thermoelectric Applications," Abstract Only, presented at the Functional Coating and Surface Engineering Conference 2003, Montreal, Canada, 3 pages (June 4-7, 2003).
		Martin, P. M. et al., "Nanostructured multilayer B <sub>4</sub> C/B <sub>9</sub> C and Si/Si <sub>0.8</sub> Ge <sub>0.2</sub> films for advanced detector and thermoelectric applications," <i>Proceedings of 2004 AIMCAL Conference</i> , 7 pages (2004).
		Martin, P. M. et al., "Superlattice Coatings for Device, Structural and Protective Applications," <i>Proceedings of AIMCAL 2006 Fall Technical Conference</i> , invited, 10 pages (2006).
		Martin, P. M. et al., "Recent advances in magnetron sputtered superlattice and quantum well structures," <i>Proceedings of SPIE</i> , Vol. 6403, pp. 640310-10 to 640310-11 (2006).
		Martin, P. M. et al., "Magnetron-Sputtered Nanolaminate and Superlattice Coatings," <i>Proceedings of SPIE</i> , Vol. 6403, pp. 640310-1 to 640310-9 (2006).
		Office action from the U.S. Patent and Trademark Office in U.S. Patent Application No. 11/004,611, dated January 7, 2008.
		Plachkova, S.K. et al., "Materials for Thermoelectric Application Based on the System GeTe-AgBiTe <sub>2</sub> ," <i>Physica Status Solidi (A)</i> , Abstract Only, Vol. 184, Issue 1, pp. 195-200 (March 2001).
		Plachkova, S.K., "Thermoelectric figure of merit of the system (GeTe) <sub>1-x</sub> (AgSbTe <sub>2</sub> ) <sub>x</sub> ," <i>Phys. Stat. Sol. (A)</i> , Abstract Only, Vol. 83, No. 1, pp. 349-356 (1984).
		Plachkova, S.K., "Thermoelectric Power in the System (GeTe) <sub>1-x</sub> (AgSbTe <sub>2</sub> ) <sub>x</sub> ," <i>Phys. Status Solidi (A)</i> , Abstract Only, Vol. 80, No. 1, pp. K97-K100 (Nov. 16, 1983).
/JB/		Sharp, J. W., "Some Properties of GeTe-Based Thermoelectric Alloys," <i>IEEE 22nd International Conference on Thermoelectrics</i> , pp. 267-270 (2003).

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/JB/		Yamanaka, S. et al., "Thermoelectric properties of $T_{19}BiTe_3$ ," <i>Journal of Alloys and Compounds</i> , Vol. 352, pp. 275-278 (2003).

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